AMENDMENTS TO THE CLAIMS

1. (Original) A process for an asymmetric intramolecular [3+2] cycloaddition reaction of a hydrazone characterized by reacting a hydrazone derivative represented by the following formula (III):

$$\begin{array}{c}
\mathbb{R}^{3}\mathbb{R}^{4} \\
\mathbb{N} \\
\mathbb{R}^{2} \\
\mathbb{R}^{1}\mathbb{N}\mathbb{H} \longrightarrow \mathbb{R}^{5}
\end{array}$$

(wherein R¹, R², R³, R⁴ and R⁵ are each identical or different and denote a hydrogen atom or a hydrocarbon group which may have a substituent or a hetero atom, R¹ and R², R³ and R⁴ may be linked to form a ring by a hydrocarbon chain which may have a substituent or a hydrocarbon chain which has a hetero atom, and X denotes a hetero atom or a hydrocarbon chain which may have a substituent or a hetero atom) in the presence of an asymmetric catalyst system obtained by mixing a zirconium alkoxide represented by the following formula (I):

$$Zr(OR)_4$$
 (I)

(wherein R is a hydrocarbon group which may have a substituent) with a binaphthol derivative represented by the following formula (II):

$$Y^2$$
 OH
 OH
 Y^2
 Y^1
 Y^2
 OH
 Y^2
 Y^1

(wherein Y^1 and Y^2 are each identical or different and denote a hydrogen atom or a halogen atom, and at least one of Y^1 and Y^2 denotes a halogen atom).

2. (Original) The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to claim 1, which is carried out in the coexistence of a primary alcohol.

- 3. (Original) The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to claim 2, wherein the primary alcohol is an n-propanol.
- 4. (Currently Amended) The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to any one of claims 1 to 3claim 1, by which an asymmetric cyclic compound represented by the following formula (IV):

is synthesized.

5. (Currently Amended) The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to any one of claims 1 to 4claim 1, wherein the zirconium alkoxide used in the catalyst system is Zr(O^tBu)₄ or Zr(OPr)₄.